VISTA

Flexibility by Design™

GRAPHICA SABRE
INSTALLATION & USER MANUAL

Graphica Sabre

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Norbain SD Ltd, 210 Wharfedale Road, IQ Winnersh, Wokingham, Berkshire RG41 5TP, England.

UK: +44 (0) 118 912 5000

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About This Guide

Graphica Sabre consists of an NVR, keyboard and mouse. It can be used as part of a standalone system, or as part of a larger surveillance suite.

The system also requires a network switch and a monitor with appropriate cables. These are not supplied as part of the system.

Safety Terms

These terms may appear in this manual:

Table 1 Safety terms

Caution	Cautions identify conditions or practices that may result in below optimum system performance
Warning	Warnings identify conditions or practices that could result in equipment damage or serious personal injury.

CE Compliance Statement

WARNING

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

1 Getting Started

This chapter covers the following:

- Introduction
- Setting up Graphica Sabre on a Private Network
- Setting up Graphica Sabre on an Existing LAN

Introduction

Graphica Sabre can be used as part of a standalone system, or as part of a larger surveillance suite. The simplest way is to set it up on a private network.

If you wish to use Graphica Sabre as part of a larger surveillance system, you can integrate it into an existing LAN.

Before starting to use Graphica Sabre, you must consider which of these scenarios applies to you. Instructions for both scenarios are detailed below.

Uninterruptable Power Supply (UPS) system

Caution: Before setting up Graphica Sabre, we strongly recommend that a UPS system is installed to prevent system corruption due to power loss. This should be of a type that shuts down the operating system automatically if the utility power does not resume before the UPS power fails.

Setting up Graphica Sabre on a Private Network

This section details how to set up Graphica Sabre on a private network.

Note: Before setting up Graphica Sabre, the cameras you are using must be configured for use with Graphica Sabre. Graphica Sabre is configured with a default IP address of 192.168.30.5.

1 Connect each camera to the switch and power on.

- If you are using VIP2 IP cameras, please be aware that these cameras are all configured with the same IP address of 192.168.30.220. You must change this for each camera before connecting them to Graphica Sabre.

2 Attach the monitor, keyboard, mouse, network switch and power supply to Graphica Sabre as shown in Figure 1. Power up Graphica Sabre and the monitor.

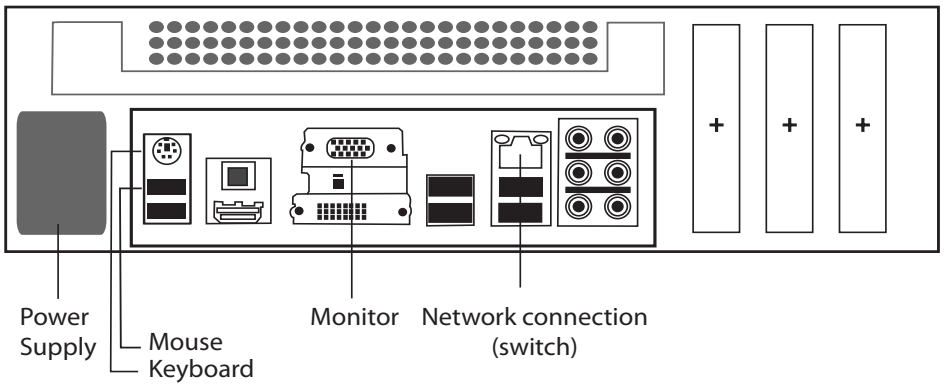

Figure 1 *The rear of Graphica Sabre*

Warning: Graphica Sabre MUST be installed in a vertical orientation using the stand provided. Failure to do this invalidates the warranty.

Note: Please note that the SD card reader on the side of Graphica Sabre has been deactivated.

3 You have now set up Graphica Sabre on a private network.

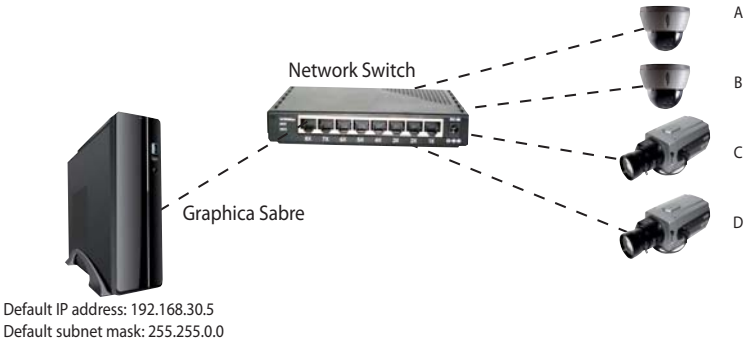

Figure 2 *Setting up Graphica Sabre on a private network*

4 Next, you need to discover and add cameras. For further information, see “Adding and Editing Devices” on page 22.

Setting up Graphica Sabre on an Existing LAN

To add Graphica Sabre to an existing LAN:

1 First, determine the addressing scheme that Graphica Sabre and the cameras will use.

2 Connect each camera to the switch and power on.

3 Configure the cameras as detailed in their setup instructions (shipped with the cameras). You may require another, separate PC to do this. The cameras’ IP addresses must match that of your existing LAN. You must carry out this step before using Graphica Sabre to access them.

Caution: Failure to correctly configure the cameras may mean that they cannot be accessed by Graphica Sabre.

4 Attach the monitor, keyboard, mouse, network switch and power supply to Graphica Sabre as shown in Figure 1.

5 Power up the network switch and the monitor.

6 Finally, power on Graphica Sabre.

7 Because Graphica Sabre and the Windows server are on different subnets, they cannot communicate. You must change the IP address of Graphica Sabre so that it is on the same subnet as the existing LAN, as follows:

a. Press the Windows button on your keyboard and select Network Settings.

b. Enter the administrator password. The default password is *password*.

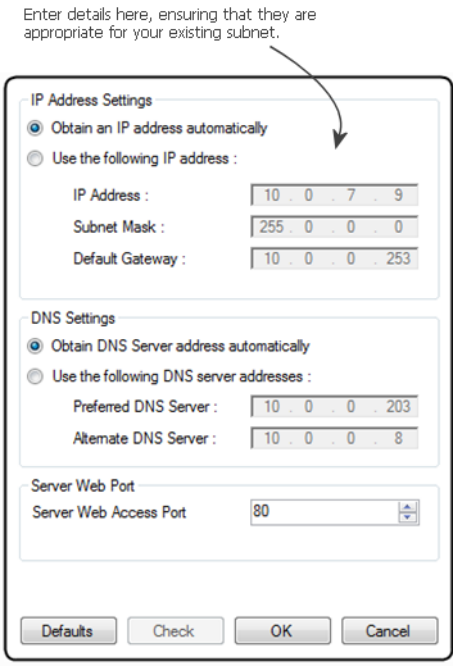
Enter details here, ensuring that they are appropriate for your existing subnet.
IP Address Settings
Obtain an IP address automatically
Use the following IP address :
IP Address : 10 . 0 . 7 . 9
Subnet Mask : 255 . 0 . 0 . 0
Default Gateway : 10 . 0 . 0 . 253
DNS Settings
Obtain DNS Server address automatically
Use the following DNS server addresses :
Preferred DNS Server : 10 . 0 . 0 . 203
Alternate DNS Server : 10 . 0 . 0 . 8
Server Web Port
Server Web Access Port 80
Defaults
Check
OK
Cancel

Figure 3 *Configuring a static IP address*

c. Select *Use the following IP address* and enter an IP address, subnet mask, and default gateway information appropriate for use with the existing LAN. Next click OK to apply the static IP addressing and close the TCP/IP properties dialog.

8 Graphica Sabre is now on the same subnet as the existing LAN.

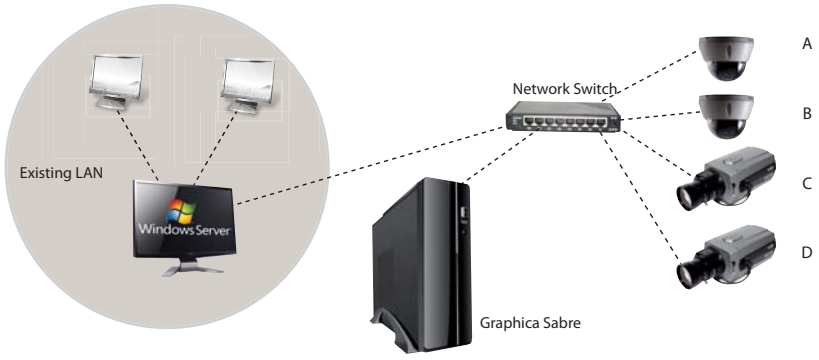

Figure 4 *Adding Graphica Sabre to an existing LAN*

9 Graphica Sabre automatically reboots to apply the changes.

10 You are now ready to start using Graphica Sabre. First, you need to discover and add cameras to the system. For further information, see “Adding and Editing Devices” on page 22.

2 Working with Live Video

This chapter contains the following information:

- Graphica Sabre Users
- Graphica Sabre Menu
- Adding Cameras to the System
- Controlling Screen Layout
- Starting Video
- Stopping Video
- Taking a Snapshot of Live Video
- Working with PTZ Cameras
- The Alarm Stack
- Working with the Audit Trail

Graphica Sabre Users

When you open Graphica Sabre, three local user options are presented:

- **Administrator** — The Administrator user has full access and control of Graphica Sabre.
- **Manager** — The Manager user can view live and recorded video and perform local configuration. He cannot add, remove or edit devices or change network settings.
- **Viewer** — The Viewer user can only view live video and change the local configuration.

Note: A fourth user is available – **WebUser**. This user is used to log in remotely from another PC. See Chapter 5, "Accessing Graphica Sabre using a Web Browser".

The default password for all users is *password*.

Note: One local user and one web user can be logged in to Graphica Sabre at the same time. It is not possible to have more than one web user logged in simultaneously. If you are logged in as a web user, you must click Logout to allow other users to access Graphica Sabre remotely.

Graphica Sabre Menu

The Graphica Sabre menu is hidden during normal operation. To reveal it, click the screen. Note that no cursor is shown until after the initial interaction. If no interaction is made with the menu items, the menu is automatically hidden.

Graphica Sabre initially opens with four video display areas known as "video panes", or just "panes". To start using Graphica Sabre, you must first add video sources. Please see “Adding and Editing Devices” on page 22.

Adding Cameras to the System

To add cameras to Graphica Sabre, you must use the Add Device Wizard. For details of how to do this, please see “Adding and Editing Devices” on page 22.

Controlling Screen Layout

To control the screen layout used by Graphica Sabre:

1 If the menu is not showing, click the screen anywhere to reveal it.

2 Select Layouts.

Figure 5 *Controlling screen layout*

3 Select the layout you require. Note that the layout options presented vary depending on the type of monitor you have (widescreen/standard monitor). Graphica Sabre immediately switches to that layout. Note that reducing the number of visible video panes automatically stops video playing in the panes which are no longer displayed.

Note: Double-click a video pane to display it in Single layout, and double-click again to return to the previous layout.

Note: Video within a video display area normally stretches to fill the full area. This can change the aspect ratio and the video proportions and might not be acceptable in all circumstances. To maintain correct proportions, you must change the aspect ratio option. See “Maintaining Aspect Ratio” on page 29.

Starting Video

To display live video in a Graphica Sabre pane:

1 Ensure that you have added at least one video source for Graphica Sabre to display (see “Adding and Editing Devices” on page 22).

2 If the menu is not showing, click the screen anywhere to reveal it.

3 Select Cameras from the camera menu as shown in Figure 6.

Figure 6 *Displaying live video in a video pane*

4 Select the pane where you want to display video. A border appears around that pane to indicate that it is the active pane.

5 Select a camera to display video from that device in the selected pane. Use the up and down arrows to scroll through the list of cameras. Video from that camera is displayed.

Note: If the video source is not available, the video pane will appear completely black. You can specify that Graphica Sabre should attempt to display the video source device at all times until video is stopped. See “Reconnecting Video” on page 30. This means that Graphica Sabre will occasionally attempt to reconnect to absent devices. The message "Connecting..." will be seen when attempting to re-establish a connection. If Graphica Sabre is shut down and then restarted, video source devices that were being displayed at shutdown time will be automatically started.

If you are using an eclipse^2 camera, please see Appendix A, "Using eclipse2 Cameras" for more information.

Stopping Video

To stop video displaying in a Graphica Sabre video pane:

1 Select the pane displaying video you want to stop.

Figure 7 *Stopping video in a Graphica Sabre pane*

2 Select Cameras, then Stop Video.

Taking a Snapshot of Live Video

Graphica Sabre allows you to capture snapshots of live video displaying in a video pane. These are stored on the PC's hard drive as .jpeg images, ready to be transferred onto a removable device.

Figure 8 *Saving snapshots to a removable device*

To take a snapshot of live video:

1 Select the pane playing the video you want to take a snapshot of.

2 Click the Snapshots button. Repeat this for each snapshot you require. The number shown increments accordingly.

3 Insert a removable device into the front of Graphica Sabre.

4 Graphica Sabre detects the new device; select the drive name to copy all snapshots onto the removable device.

Working with PTZ Cameras

Note: Before you can use Graphica Sabre to control a PTZ camera, you must have first enabled PTZ functionality on the camera. For information on how to do this, “Adding and Editing Devices” on page 22.

You can use a USB joystick to control live video from PTZ cameras. Please see “Using a USB Joystick to Control Live Video”, below.

To control a PTZ camera using the mouse:

1 Display the PTZ camera in a video pane as described in “Starting Video” on page 11.

Figure 9 *Using PTZ controls*

2 Click the PTZ button. The button turns green to show the PTZ control is active, faint crosshairs appear in the pane and PTZ controls appear in the video pane.

- To zoom in on the video, press .
- To zoom out, press .
- To pan and tilt the camera, click the screen and move the mouse in the required direction.
- To move to a PTZ preset position which has been set on the camera, press Preset and select the required preset from the list which appears.

Note: You can also use the mouse wheel to zoom in and out.

Using a USB Joystick to Control Live Video

Once you have enabled PTZ functionality, (see “Adding and Editing Devices” on page 22), you can use a standard HID analogue joystick to control PTZ video.

Single Stick Joysticks

Activate the PTZ control	Press button 1
Zoom in/out	Press button 1 and move the stick forwards or backwards
Pan the camera	Move the stick in the direction you want to pan the camera
Deactivate the PTZ control	Press button 2

Dual Stick Joysticks

Activate the PTZ control	Press button 1
Zoom in/out	Move stick 2 forward or backwards
Pan the camera	Move stick 1 in the direction you want to pan the camera
Deactivate the PTZ control	Press button 2

Working with Outputs

Some of your surveillance cameras may contain outputs. These may have been configured to carry out an action when a button is pressed on screen — such as raising or lowering a barrier, opening or closing a door, etc.

To control one of these outputs:

1 If not already viewing video, select a video pane, then a camera to view live video.

2 Click Outputs.

Figure 10 *Working with outputs*

3 A list of available outputs is displayed on screen.

4 Click On to activate the required output, and Off to deactivate it (if required).

The Alarm Stack

The alarm stack displays any triggered alarms in your site. These may be from triggers you have set up, or from motion events.

For example, you may have set up motion detect recordings for some of your cameras (see “Adding and Editing Devices” on page 22 for information on setting up recordings).

When motion is detected on a camera which has motion detect recording enabled, an alarm appears in the alarm stack on screen. To view these alarm details, select Alarms from the on-screen menu. Subsequent motion detected on this camera increments the number shown for this alarm.

A second alarm appears in the stack if motion is detected on a second camera on which you have enabled motion detect recording.

Note: Other types of alarm may appear in the alarm stack. These are mainly to do with NVR status, for example, disk space warnings.

If you have set up a recording on a camera, and this recording stops suddenly, an alarm is displayed in the alarm stack. If you have speakers, an audible alarm is also output to alert you.

Working with the Audit Trail

The audit trail provides a comprehensive list of events that have occurred since Graphica Sabre was installed. Some examples of event information are:

- Alarms (acknowledgement, closed).
- Users (added, deleted, edited etc.).
- Devices (added, updated, deleted, disconnected etc.).

This list is not comprehensive – many other types of event are also monitored.

To export a list of audit information:

1 Attach a removable storage device to one of the USB ports on the front of Graphica Sabre.

2 Click the screen to activate the menu, then select Audit Export.

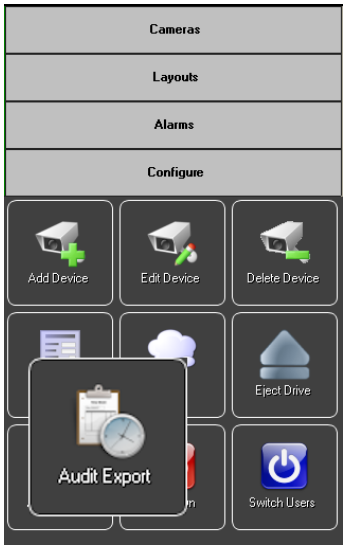

Figure 11 *Exporting audit information*

3 Follow the steps in the Export Wizard.

3 Working with Recorded Video

This chapter contains information on the following:

- Recordings Overview
- Playing Back Recorded Video
- Taking Snapshots of Recorded Video
- Exporting Recorded Video

Recordings Overview

Devices which have recording(s) associated with them are shown with a green arrow in the device list (Figure 12).

Figure 12 *Cameras with associated recordings*

To set up a recording on a camera, see “Adding and Editing Devices” on page 22. Recordings can be continuous or triggered by a motion detect event.

Playing Back Recorded Video

To play back a recording made by a camera in the list, click the green triangle beside the camera name. A green triangle appears in the bottom right of the video pane, indicating that this is recorded footage.

Video playback starts 10 minutes before the end of the recording. This value is non-configurable.

Caution: If the recording is less than 10 minutes long, no video is displayed. Use the timeline to locate the recording and play it back manually.

Figure 13 *Starting playback from a camera*

A timeline appears below the video panes. This allows you to navigate through the recording. A red vertical line on the timeline indicates the current point in the recording.Table 2 explains the different colours used on the timeline:

Table 2 Timeline colours

Colour	Meaning
Blue	Default colour of available footage (continuous recordings or pre-alarm recording)
Grey	Indicates a gap in footage
Yellow	Post-alarm footage

The default pre- and post-alarm value is 5 minutes. This is non-configurable.

The timeline controls are as follows:

Export video. Choose Evidential Export for court evidence, or Windows Media format.

Zoom in on the timeline to view the time in more detail.

Zoom out on the timeline to view the time in less detail.

Jump to a specific time in the recording.

Move backwards through video. Click once to move backwards at double normal speed, twice for 4 times, and three times for 8 times normal speed. Pressing this button when the Pause button is depressed steps back through the recording's I-frames.

Play video forwards at normal speed.

	Pause video. Use in conjunction with the backwards and forwards buttons to step through the recording's I-frames.
	Move forwards through video. Click once to move forwards at double normal speed, twice for 4 times, and three times for 8 times normal speed. Pressing this button when the Pause button is depressed steps forward through the recording's I-frames.
	Use the right and left arrows to scroll through the timeline.

Taking Snapshots of Recorded Video

The procedure for taking snapshots of recorded video is identical to that for live video. See "Taking a Snapshot of Live Video" on page 12.

Deleting Recordings

To delete recordings associated with a device:

1 Select Delete Device from the Configure menu.

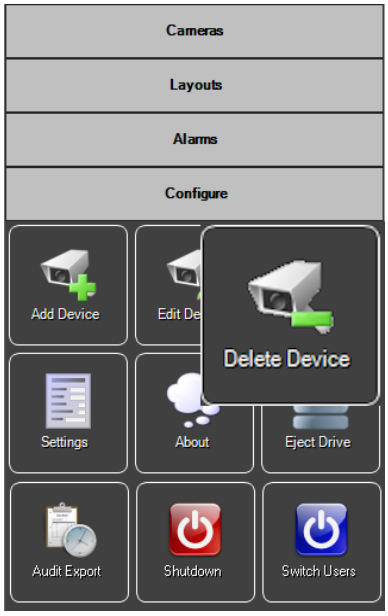

Figure 14 *Delete device option*

2 A list of all cameras and encoders in your system appears in the main window.

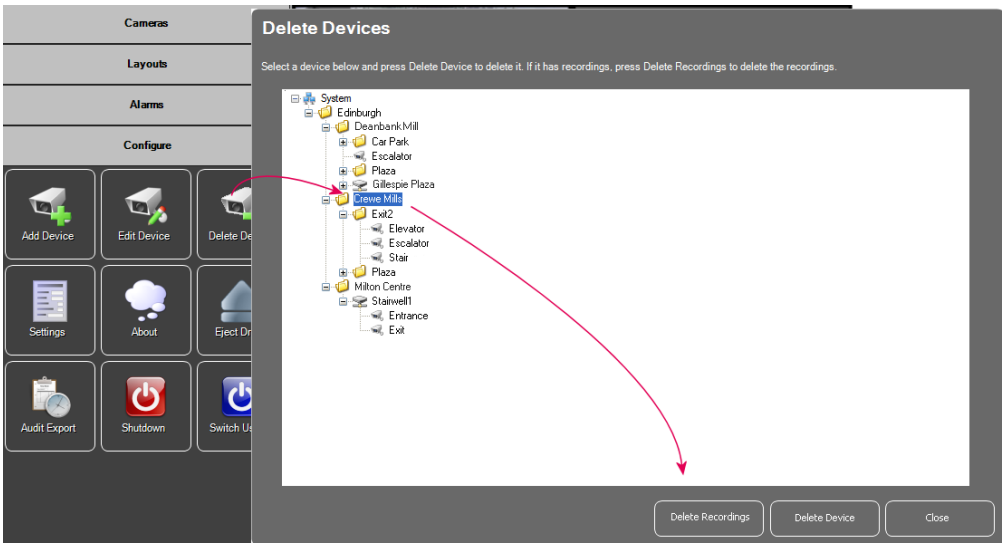

Figure 15 *Deleting recordings associated with a device*

3 If a device has recordings associated with it, the Delete Recordings button is available. Select the device whose recordings you want to delete from the list and select Delete Recordings.

Note: Only recordings for that device are deleted; the device itself remains in the system unless you select Delete Device.

Exporting Recorded Video

It may be necessary to extract a portion of recorded footage for playback in a player application. Graphica Sabre can export video in Evidential Integrity format for court evidence, or Windows Media format for use with ASF-compatible media players. Exporting video is made easy by the Export Wizard.

Note: You must be logged in as administrator to export video.

Note: By default, five minutes on either side of the currently playing video are selected for export; for example, if you are currently viewing video from 10:00pm then the default times will be 09:55pm and 10:05pm. The smallest period of footage that you can export is 1:59 minutes — for example, if you select 10:00 for the start time, and 10:01 as the end time, the exported footage will run from 10:00:00 to 10:01:59.

To export video:

1 Attach a removable storage device to one of the USB ports on the front of Graphica Sabre, or insert a writable disk into the optical drive.

2 Display the recording you want to export in a video pane. (See “Playing Back Recorded Video” on page 16).

3 Click the pane displaying the recording.

4 On the timeline, click to open the Export Wizard.

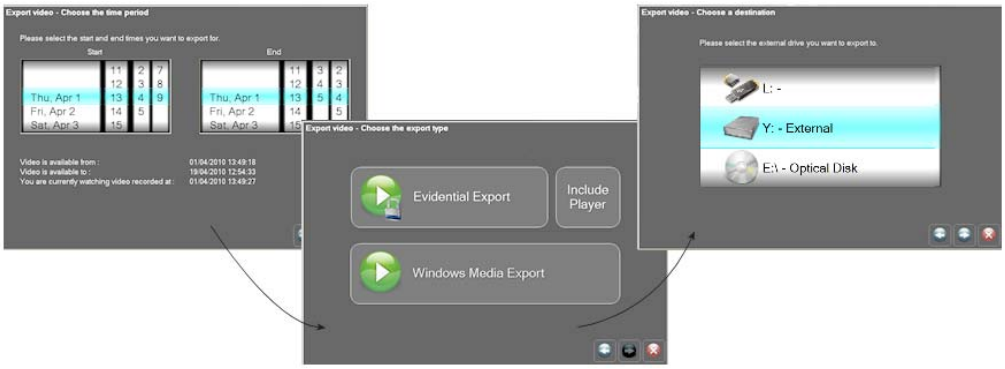
Export video - Choose the time period
Please select the start and end times you want to export for.
Start
End
Thu, Apr 1
Fri, Apr 2
Sat, Apr 3
Export video - Choose the export type
Evidential Export
Include Player
Windows Media Export
Export video - Choose a destination
Please select the external drive you want to export to.
L: -
Y: - External
E:\ - Optical Disk

Figure 16 *Graphica Sabre’s Export Wizard*

5 Select the start and end times of the export period you require. In Figure 16, video between 13:49 and 13:54 will be exported. The maximum length of video you can export is one hour.

6 Select the export type:

- Evidential export — this is in Evidential Integrity format and can only be played back using Graphica Player. Evidential exports contain a watermark to show that it has not been tampered with and is suitable for courtroom situations. Graphica Player is automatically exported when you select Evidential export. If you do not require this, click “Include Player” to deselect it.

  Note: If you select Evidential export when saving to optical disk, the recording opens automatically in Graphica Player when you insert the disk into a PC. If saving to USB drive, the recording and Graphica Player installer are saved; you must install the Player application manually before playing back the recording.

- Windows Media export — this is in .asf format and can be played back using ASF-compatible players, for example, Windows Media Player or VLC Media Player.

7 Select a destination for the exported video. All available connected external USB drives are listed, (for example, pen drives, external optical drives).

8 Select Next to export the video.

4 Configuring Graphica Sabre

This chapter contains information on the following:

- Configuration Overview
- Adding and Editing Devices
- Deleting Devices
- Configuring System Settings
- Additional Utilities

Configuration Overview

Graphica Sabre requires very little configuration, but before you can start to use it, you must add devices that you want to monitor to the Graphica Sabre system. You can also create recording schedules and specify how video appears on the screen.

Using Vista SmartManager

If you are using Vista cameras, please use the Vista SmartManager utility to change the cameras' IP addresses before adding them to Graphica Sabre. Details are given below.

1 Connect the camera to the network and power up.

2 Press the Windows key and select the SmartManager utility.

3 The main window is displayed. After a short while any devices connected to the network are displayed in the list.

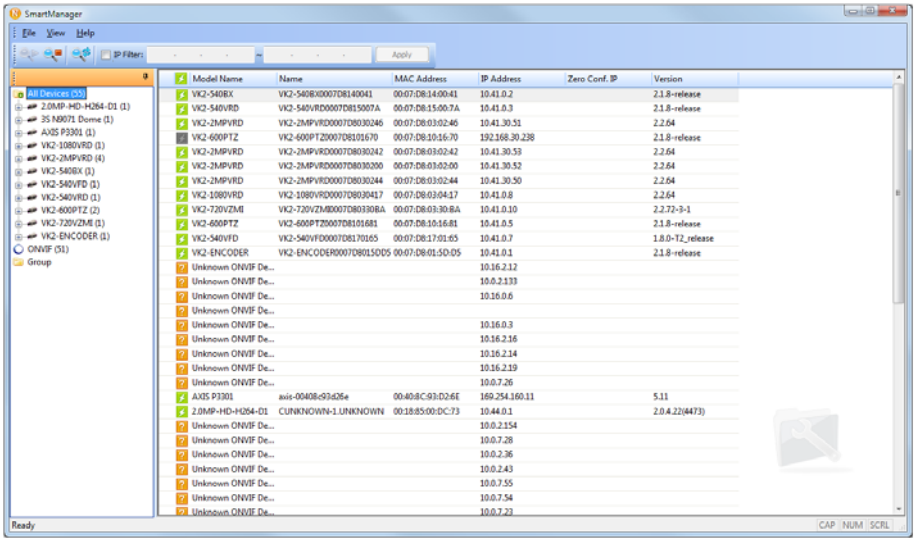

Figure 17 *List of devices discovered by SmartManager*

4 Select a camera on the list and right-click Assign IP:

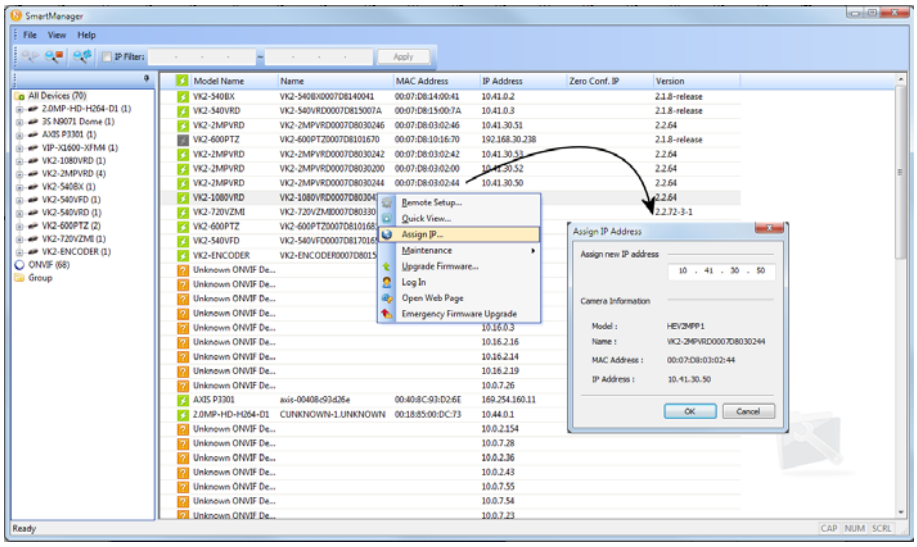

Figure 18 *Assigning an IP address*

5 Enter the required IP address.

6 Click OK. The device's IP address is now changed. Ensure the PC is on the same network to gain connection.

The connection status of each device on the network is indicated by the following icons:

	Available to connect the network device
	Unavailable to connect the network device
	Connectable to the network device with fixed security (User ID/Password)
	Loading the setting after connecting the network device

Note: For more information, refer to the SmartManger User's Manual.

Adding and Editing Devices

1 Select Add Device from the Configure menu.

2 The Add Device wizard appears. Select Next to move to the next screen.

3 The first time you use the wizard, no devices are listed. Select Find Devices to display a list of all devices discovered on the network.

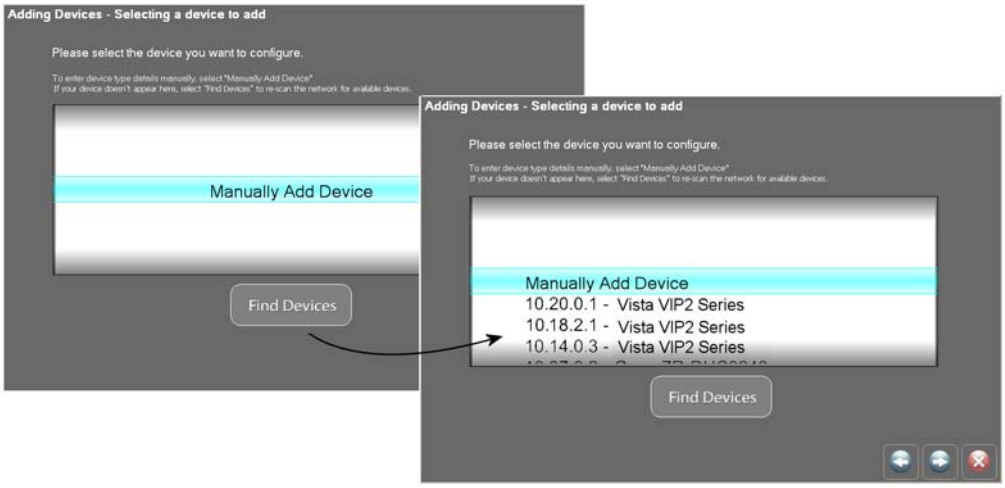
Adding Devices - Selecting a device to add
Please select the device you want to configure.
To enter device type details manually, select "Manually Add Device"
If your device doesn't appear here, select "Find Devices" to re-scan the network for available devices.
Manually Add Device
Find Devices
Adding Devices - Selecting a device to add
Please select the device you want to configure.
To enter device type details manually, select "Manually Add Device"
If your device doesn't appear here, select "Find Devices" to re-scan the network for available devices.
Manually Add Device
10.20.0.1 - Vista VIP2 Series
10.18.2.1 - Vista VIP2 Series
10.14.0.3 - Vista VIP2 Series
Find Devices

Figure 19 *Discovering devices on the network*

Note: If a device is not discovered automatically, it may not support the required discovery protocols. Devices that cannot be auto-discovered must be added manually. See “Manually Adding Devices” on page 26. If you are adding an eclipse^2 fisheye camera, please see Appendix A, "Using eclipse2 Cameras".

4 Scroll down the list of devices to the one you want to add, then select Next. It may take some time for all devices to be found.

5 If prompted, select the required codec and network transport and select Next.

6 Enter a name for the device. If this device requires a user name and password, enter this here, then select Add Device.

Note: Please check your camera documentation for full details of default user names and passwords.

7 If web configuration is available for your device, select Launch Web Configuration to access the device’s web configuration pages. This provides access to camera-specific configuration options via a web browser.

Note: If you minimise the browser when configuring a device, use Alt-Tab to bring the browser to the front again.

8 When finished with the web configuration pages, or if you do not need to use the web pages, select Next.

9 To change the camera name, scroll to the name you want to change.

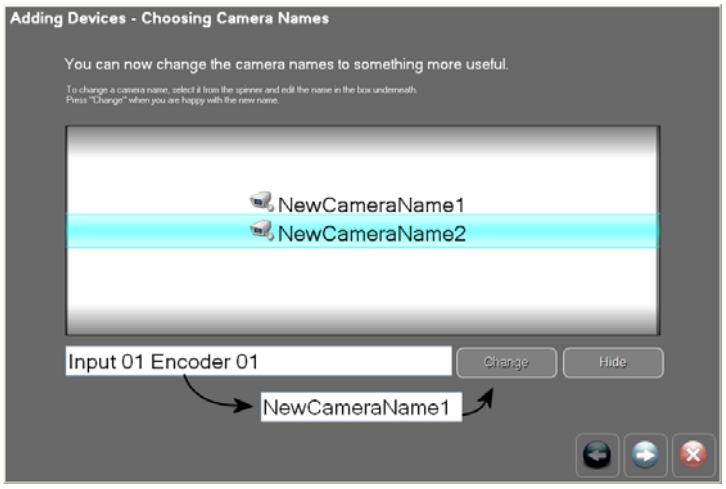
Adding Devices - Choosing Camera Names
You can now change the camera names to something more useful.
To change a camera name, select it from the spinner and edit the name in the box underneath.
Press "Change" when you are happy with the new name.
NewCameraName1
NewCameraName2
Input 01 Encoder 01
Change
Hide
NewCameraName1

Figure 20 *Changing camera name*

10 Select the name as shown in Figure 20, enter the new name, then select Change, then Next.

11 To hide this camera so it is not visible in the list of displayed cameras, click Hide.

12 If your device has a PTZ unit attached, select the required device and select Enabled. Scroll through the list of PTZ types and enter a PTZ address. Select Change, then Next.

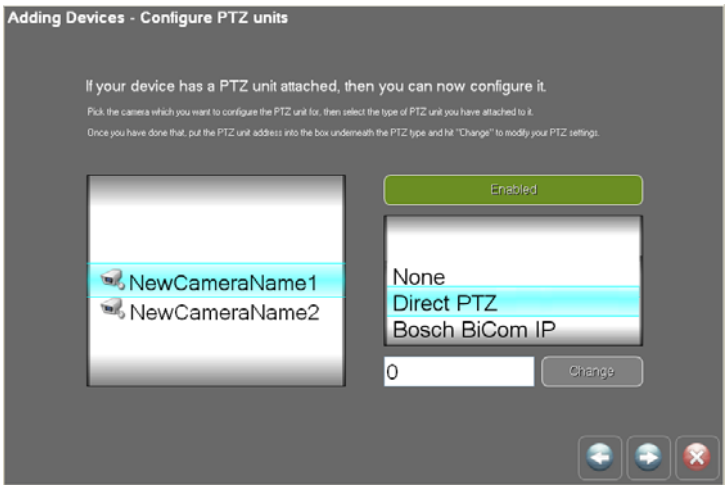
Adding Devices - Configure PTZ units
If your device has a PTZ unit attached, then you can now configure it.
Pick the camera which you want to configure the PTZ unit for, then select the type of PTZ unit you have attached to it.
Once you have done that, put the PTZ unit address into the box underneath the PTZ type and hit "Change" to modify your PTZ settings.
NewCameraName1
NewCameraName2
Enabled
None
Direct PTZ
Bosch BiCom IP
0
Change

Figure 21 *Configuring a PTZ unit*

13 If the camera you are setting up has triggers, you can now name and enable/disable them.

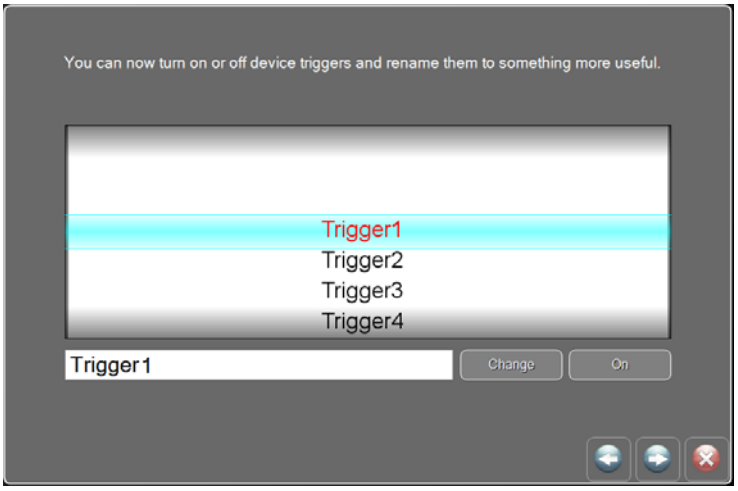

Figure 22 *Setting up triggers*

14 If the camera you are setting up has outputs, you can now rename them.

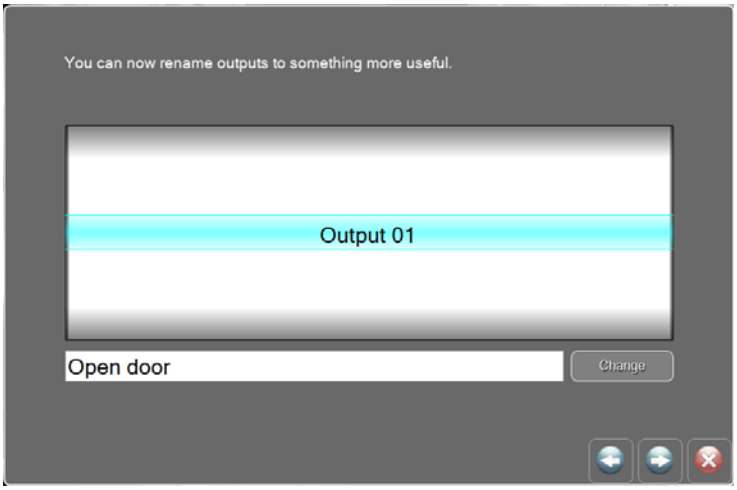

Figure 23 *Renaming outputs*

15 Select the camera that you want to record from and click Recording Type to select the type of recording you require.

Figure 24 *Setting up recordings*

Note: Selecting Motion detect enables motion detection on the camera. This is required if you want to view live video when a motion detect event occurs. For more information, see “Event-Driven Video” on page 31. Motion detect may not be available for all devices. Please note that five minutes of video are recorded prior to the motion event, and five after. This value is non-configurable.

Caution: Please exercise caution when setting up motion detect recording. Failure to do so may result in large volumes of alarms which may lead to undesired system behaviour, for example the timeline may take longer to process, and may not display all events correctly.

16 To set a loop time for the recording, select Loop Time then select a value from the list. This is the number of days that are recorded before the oldest recording data starts to be overwritten (this is known as *reaping*). The default number of days is 31, however, reaping may begin before this if disk space is becoming critical.

Note: If recording stops suddenly for any reason, an alarm appears in the alarm stack, and an audible alarm is output (if speakers are available).

Manually Adding Devices

If a device cannot be auto-discovered by Graphica Sabre, you need to add it manually using the Add Device Wizard.

1 Select Add Device from the Configure menu.

2 The Add Device wizard appears. Select Next to move to the next screen.

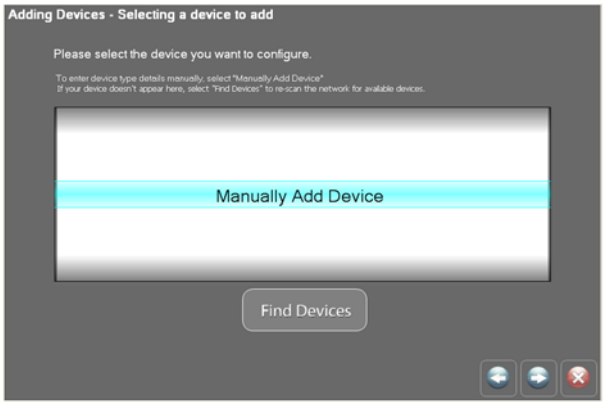
Adding Devices - Selecting a device to add
Please select the device you want to configure.
To enter device type details manually, select "Manually Add Device"
If your device doesn't appear here, select "Find Devices" to re-scan the network for available devices.
Manually Add Device
Find Devices

Figure 25 *Manually adding a device*

3 Manually Add Device is selected. Select Next to move to the next screen.

4 Select the type of device you are adding, then select Next.

5 Enter the IP address of the device, and select Next.

6 If required, select the required codec and network transport and select Next. Please ensure that these settings match those used on the camera.

7 Enter a name for the device. If required, enter the user name and password, then select Add Device, then select Next.

Note: Please check your camera documentation for full details of default user names and passwords.

8 If web configuration is available for your device, select Launch Web Configuration to access the device's web configuration pages. This provides access to camera-specific configuration options via a web browser.

Note: If you minimise the browser when configuring a device, use Alt-Tab to bring the browser to the front again.

9 When finished with the web configuration pages, or if you do not need to use the web pages, select Next.

10 To change the camera name, scroll to the name you want to change. To hide this camera so it is not visible in the list, click Hide. Click Next.

11 If your device has a PTZ unit attached, select the required device and select Enabled. Scroll through the PTZ types and enter a PTZ address. Select Change, then Next.

12 If the camera you are setting up has triggers and/or outputs, you can now rename them. You can also enable/disable triggers.

13 Select the camera that you want to record from and select the type of recording.

Note: Selecting Motion detect enables motion detection on the camera. This is required if you want to view live video when a motion detect event occurs. For more information, see "Event-Driven Video" on page 31. Please note that five minutes of video are recorded prior to the motion event, and five after. This value is non-configurable.

Caution: We do not recommend that you use motion detect on PTZ cameras.

Note: Motion detect may not be available for all devices.

Note: If recording stops suddenly for any reason, an alarm appears in the alarm stack, and an audible alarm is output (if speakers are available).

Editing Devices

To edit a device you have added:

1 Select Edit Device from the Configure menu.

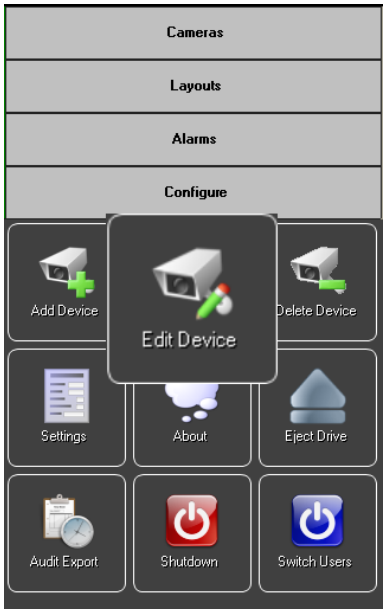

Figure 26 *Edit device option*

2 Select the device you want to edit from the list of devices that is displayed.

3 Edit the device settings as required.

Note: You can change the recording type from continuous to motion detect, or vice versa. This should take effect immediately. In the unlikely event that the recording type does not appear to change in the timeline, you should restart Graphica Sabre to force the change to take effect.

Deleting Devices

To delete a device from Graphica Sabre:

1 Select Delete Device from the Configure menu.

2 A list of all cameras and encoders known to Graphica Sabre appears in the main window.

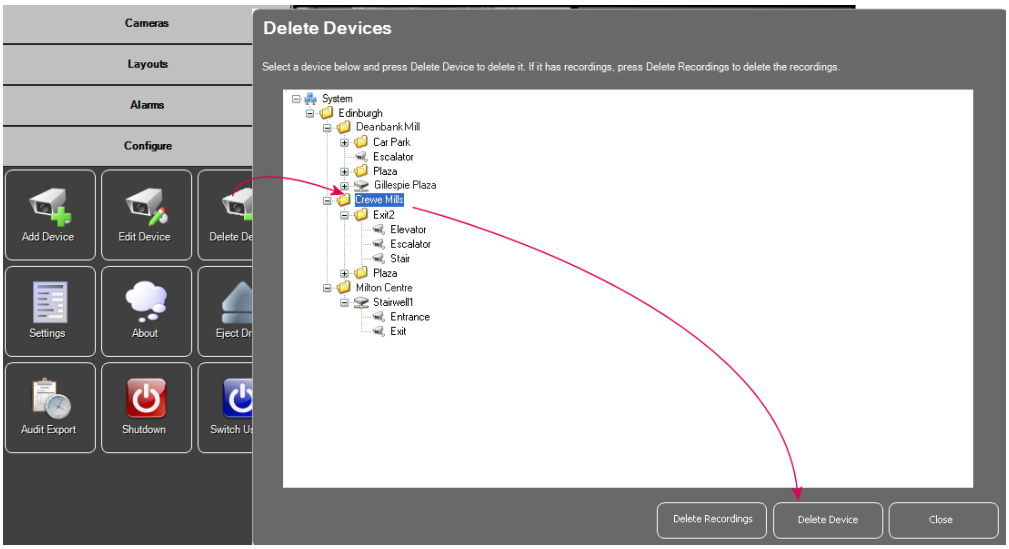

Figure 27 *Deleting a device*

3 Select the device you require in the list and click Delete Device.

Note: If the device you have selected for deletion has recordings associated with it, you are given the option to delete those recordings first before deleting the device.

Note: When deleting a device such as an IP encoder, all associated sub-devices related to that device are also deleted, e.g. triggers,outputs, etc.

Configuring System Settings

Maintaining Aspect Ratio

Video within a video display area normally stretches to fill the full area. This can change the aspect ratio and the video proportions and might not be acceptable in all circumstances. To maintain correct proportions, you must change the aspect ratio option.

Figure 28 *Maintaining the aspect ratio*

Displaying Camera Name Overlays

To display the name of a camera being displayed in a Graphica Sabre pane, select Video Overlay, as shown in Figure 29.

Figure 29 *Displaying camera name overlays*

Reconnecting Video

To specify that Graphica Sabre should attempt to reconnect video from cameras which have become unavailable, select Reconnect Video, as shown in Figure 30.

Figure 30 *Specifying that video should be reconnected*

Changing User Passwords

To change user passwords, you must be logged in as the Administrator user.

1 Select Settings, then Passwords as shown in Figure 31.

Figure 31 *Changing user passwords*

2 Select the required user, then enter and confirm the new password.

3 Click Done when finished.

Setting the Screen Timeout

To specify how long Graphica Sabre remains active on screen before a password is required to reactivate it:

1 Select Settings, then Passwords as shown in Figure 31.

2 Set the Screen lock time to the required value, then click Set.

Note: If you enter 0 for the Screen lock time, the screen will never lock.

3 Click Done.

Event-Driven Video

To view live video when a motion detect event occurs, select Event Driven Video, as shown in Figure 32:

Figure 32 *Setting up event driven video*

You are prompted to enable or disable event driven video, and to specify for how long you want live video to continue to be displayed.

Note: You must have specified that recording should begin when a motion detect event occurs.

Reordering Views

This option ensures that when the video pane layout changes, the video panes are reordered to display as many as possible in the new layout. See Figure 33 for an example — here the layout changes from nine to four panes, but video which was displayed in pane 8 now shows in pane 3. Note that reducing the number of visible video panes automatically stops video playing in the panes which are no longer displayed.

Figure 33 *Reordering views*

Additional Utilities

Several additional utilities are available by pressing the Windows key on the keyboard. These are detailed below.

Note: You may be asked for a password to access some of the options. Enter the administrator's password to continue.

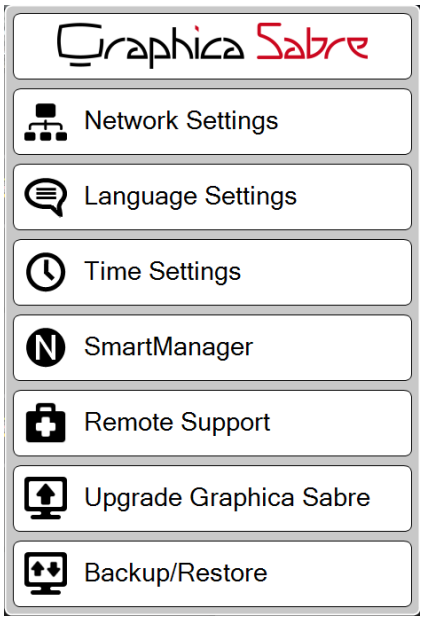

Figure 34 *Additional utilities*

Note: If the password lock changes focus when you are running a support utility, use Alt-Tab to get back to the support utility.

Note: To remove the list of utilities from the screen, press the Windows key again.

Network Settings

To access the Windows Network Connections dialog, press the Windows button on your keyboard. This dialog allows you to determine or view your IP address, add or configure a network, etc. Select Network Settings from the list which appears on screen, then enter the administrator password. For more information, please see page 8.

Note: Use this option if you need to change the HTTP port on Graphica Sabre.

Language Support

The following language displays are currently available on Graphica Sabre.

- English
- German
- Spanish
- French
- Portuguese

Additional languages will be available in the future. To select a language:

1 Press the Windows button on your keyboard.

2 Select Language Settings and choose the language you require.

3 Press Set.

Setting the Time

To set the time used by Graphica Sabre:

1 Press the Windows button on your keyboard.

2 Select Time Settings, and specify the required time.

Caution: We recommend that you set the time for Graphica Sabre immediately after startup. Do not set the time if there are active recordings as this may affect recorder function. You **must** remove any recording jobs and recordings currently stored on Graphica Sabre prior to altering the system clock.

Vista SmartManager

This is used to assign the IP addresses of Vista VIP2 cameras. Please see “Using Vista SmartManager” on page 21 for more information.

Remote Support

If you have been advised by Technical Support to enable remote support (TeamViewer), press the Windows button on your keyboard, and select Remote Support. Enter the administrator password and follow the on-screen instructions.

Upgrading Graphica Sabre

To upgrade to a later version of Graphica Sabre software:

1 Attach a removable storage device containing the upgrade software to one of the USB ports on the front of Graphica Sabre.

2 Press the Windows button on your keyboard.

3 Select Upgrade Graphica Sabre and follow the on-screen instructions.

Backing up/Restoring Configuration

You can back up current configuration, or download (restore) saved configuration onto Graphica Sabre. This includes:

- Device details
- Recording setup (but not actual recordings)
- Passwords
- Settings (remote actions, reordering views etc)
- IP address settings

To back up existing configuration:

1 Attach a removable storage device to one of the USB ports on the front of Graphica Sabre.

2 Press the Windows button on your keyboard.

3 Select Backup/Restore and follow the on-screen instructions.

To restore a saved configuration,

1 Attach a removable storage device containing the saved configuration to one of the USB ports on the front of Graphica Sabre.

2 Press the Windows button on your keyboard.

3 Select Backup/Restore and follow the on-screen instructions.

5 Accessing Graphica Sabre using a Web Browser

This chapter contains information on the following:

- Overview of Remote Access
- Prerequisites
- Using Remote Access

Overview of Remote Access

It is possible to remotely access Graphica Sabre from a web browser. Remote viewing allows you to:

- View live video
- View and navigate through recordings
- Select a screen layout

Note: It is not possible to export recorded video using remote access.

Prerequisites

To access Graphica Sabre remotely from a web browser, you must:

- Have access to a Windows PC with Internet Explorer 8 or above.

  Note: This PC must have Microsoft Silverlight 3 or above installed. (Follow this link on the second PC to install Silverlight 3 or above: http://www.microsoft.com/getsilverlight/get-started/install/default.aspx)

  Note: If you are using a version of Internet Explorer later than version 8, you may need to press the IE Compatibility View button on the browser to view Graphica Sabre remotely.

Figure 35 *IE9 Compatibility View button*

- Ensure Graphica Sabre is running.
- Make a note of Graphica Sabre's IP address. The port number used is 80.
- Have already added cameras and specified recording schedules, if required. (The remote interface does not provide a mechanism to add, edit or remove cameras or adjust recording schedules.)

Using Remote Access

To view Graphica Sabre remotely using the Windows PC, enter the IP address of Graphica Sabre into a web browser.

For example: the Graphica Sabre PC is running on a LAN with IP address 192.168.30.5. To view Graphica Sabre from another PC on the same LAN, enter **`http://192.168.30.5`** into the address bar of Internet Explorer on the second computer.

If required, you can adjust the stream quality and network bandwidth on this login page, to provide improved remote viewing:

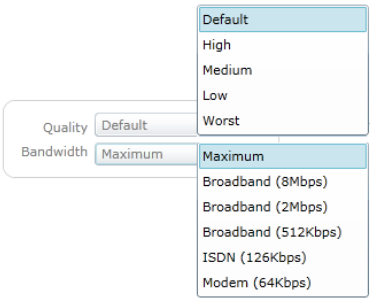

Figure 36 *Adjusting stream quality and bandwidth*

For the user name, enter *webuser*. The default password is *password.* Click Login.

We recommend that you change the default password as soon as possible. Please see “Graphica Sabre Users” on page 9.

Note: When you have finished using remote access, click Logout. This allows other users to access Graphica Sabre remotely.

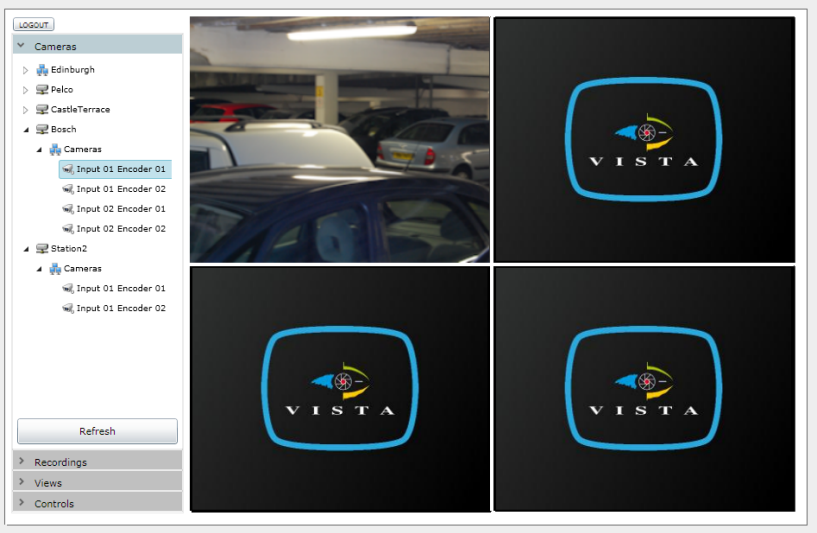

Figure 37 *Viewing live video remotely*

If this is the first time a remote access request has been made, then the first connection will take longer than subsequent requests. The pane on the left allows access to Cameras (live video), Recordings, Views (screen layouts) and Controls (for navigating around recordings and accessing PTZ functionality).

Viewing Live Video

To view a live stream, click Cameras in the pane on the left. Click on the tree elements under Cameras until an encoder endpoint is shown. Drag this endpoint to an unoccupied view pane. The live video will take a short while to be shown. Once finished, click Controls and select Disconnect.

If you are using a PTZ camera, you can control it as follows:

1 Drag and drop the camera into a video pane.

2 Select the video pane.

3 Click Controls, then use the PTZ navigation buttons to control the camera.

Viewing Recorded Video

To view a recording, click Recordings in the pane on the left. Click on the tree elements until an encoder endpoint is shown. Drag this from the Site Explorer to an unoccupied pane. The recorded video will take a short while to be shown. Once finished, click Controls and select Disconnect.

- To move around a recording, select the pane playing the recording, then click Controls in the pane on the left.
  - Use the controls to move forwards and backwards in the recording, and to pause it.
  - To go to a particular time in a recording, click Go to Time and select the required options.

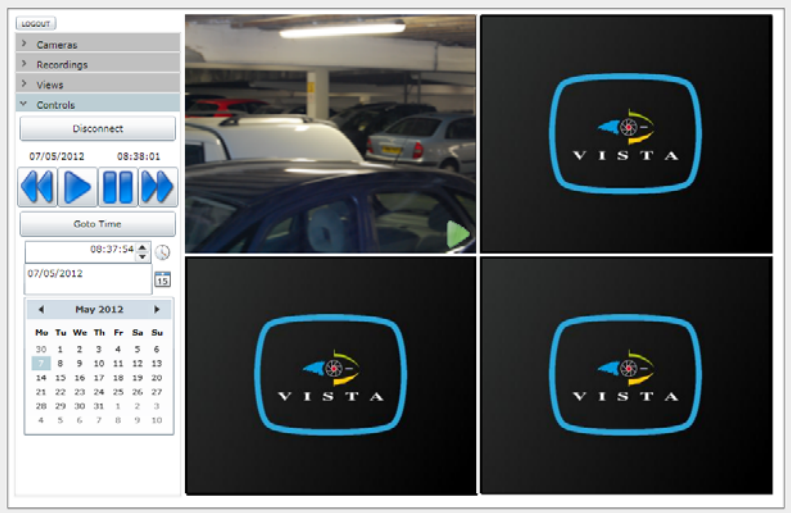

Figure 38 *Controlling a recording in remote view*

Changing Pane Layout

To change the layout of the panes on screen, click Views in the pane on the left and select the required display.

Note: Any changes made using the remote viewer are not mirrored in the actual Graphica Sabre application.

A Using eclipse^2 Cameras

eclipse^2 “fisheye” cameras provide multiple 360 degree images, all supporting full PTZ on live or playback images. They can be mounted directly to ceilings, walls or inverted onto a table or floor.

Several display options are available when using eclipse^2 cameras with Graphica Sabre. This appendix explains how to access these options and how to use them to best effect.

Note: When adding eclipse^2 fisheye cameras to Graphica Sabre, please note that these are auto-discovered only if the default name is used. If you have changed the name, you must add them manually.

Viewing eclipse^2 Cameras

The following information applies to both live and recorded video.

1 Drag and drop the eclipse^2 camera onto a video pane in Graphica Sabre. Right-click and select Dewarping. Figure 39 provides an example of how the initial view might look.

Figure 39 *Initial view of an eclipse^2 camera*

2 Click the fisheye options button as shown to access dewarping settings for the camera.

Note: Click Dewarping again to disable dewarping.

View Type

Virtual — Virtual projection allows you to move the camera around in a way similar to a PTZ camera.

Panorama 360 — Displays a long thin strip of the image.

Panorama 2x 180 — Displays two long thin strips of the image, one on top of the other.

Orientation

Select the option that best suits your camera mounting. These options vary according to the View Type selected.

Projection

These options dictate how the camera view is mapped onto a flat plane or a spherical view.

We recommend that you experiment with the settings to achieve the required view.

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